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First Publishing Year : 2019 Pages :
232 ISBN : 978-81-947407-9-7

Language : English

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Wireless communication is one of the fastest growing fields in the engineering world today. Rapid growth in the domain of wireless communication systems, services and

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Wireless communication offers a broad and dynamic technological field, which has stimulated incredible excitements and technological advancements over last few decades.

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communication technology are increasing every day. This is placing enormous challenges to wireless system designers. Moreover, this has created an ever increasing demand for conceptually strong and well versed communication engineers who understand the wireless technology

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and its future possibilities. In recent years, significant progress in wireless communication system design has taken place, which will continue in future. Especially for last two decades, the research contributions in wireless communication system design have resulted in several new concepts and

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inventions at remarkable speed. A text book is indeed required to offer familiarity with such developments and underlying concepts, to be taught in the classroom to future engineers. This is one of the motivations for writing this book. Practically no book can be up to date in this field, due to

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the fast ongoing research and developments. The new developments are announced almost every day.

Teaching directly from the research papers in the classroom cannot build the necessary foundation. Therefore need for a textbook is unavoidable, which is integral to learning, and is an

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essential source to build the concept. The prime goal of this book is to cooperate in the learning process. This book is based on current research as well as classical text books in the field, and aims to provide in depth understanding on fundamental concepts, which form the basis of

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wireless communication and build the platform, on which current developments can be understood and future contributions can be made. This book is written in self-explanatory manner to facilitate critical thinking and to support self study. Special emphasis has been given in this book

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to systematically organize and present the wide domain of wireless communication technology. Extra care has been taken to present the contents and the concepts in user friendly way to enable an easy understanding. Therefore the language of this book is made to make

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one feel, listening to a classroom lecture. This makes learning straight forward. Sometimes, the explanation could seem to be oversimplified, this is in order to support wide spectrum of readers as well as to clarify the hazy picture. A book of this kind, which addresses a fast developing

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technology, the frequent use of acronyms and abbreviations is almost inevitable. A care has been taken to spell the acronyms and abbreviations as frequently as practically suitable in the text. Besides, a list of acronyms and abbreviations has also been provided.

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Amplitude Modulation : Transmission and Reception Principles of amplitude modulation - AM envelope, Frequency spectrum and bandwidth, Modulation index and Percent modulation, AM power distribution, AM modulator circuits- low-level AM modulator,

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Medium power AM modulator, AM transmitters-Low-level transmitters, High level transmitters, receiver parameters, AM reception - AM receivers - TRF, Super heterodyne receiver, Double conversion AM receivers. Angle Modulation :
Transmission and Reception Angle

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modulation - FM and PM waveforms,
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Angle - Modulated waves. Bandwidth
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FM, Average power of an angle modulated wave, Frequency and Phase modulators, A direct FM transmitters, Indirect transmitters, Angle modulation Vs Amplitude modulation, FM receivers : FM demodulators, PLL FM demodulators, FM noise suppression, Frequency

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Sampling rate, Signal to quantization
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Digital - Percentage error, Delta
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Pulse transmission - ISI, Eyepattern,
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Asynchronous modem, Synchronous

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modem, Low-speed modem, Medium
and High speed modem, Modem
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FSK bit rate and baud, FSK
transmitter, BW consideration of FSK,

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FSK receiver, Phase shift keying -
Binary phase shift keying - QPSK,
Quadrature Amplitude modulation,
Bandwidth efficiency, Carrier recovery
- Squaring loop, Costas loop,
DPSK. Spread Spectrum and Multiple
Access Techniques Introduction,
Pseudo-noise sequence, DS spread

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spectrum with coherent binary PSK,
Processing gain, FH spread spectrum,
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Source coding of speech for wireless
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Introduction in first chapter includes various topics given in the book.

Second chapter deals with information theory that includes modes of sources and channels, information and entropy, source coding, discrete memoryless channels, mutual information and Shannon's theorems

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are given. Linear block codes, cyclic codes, Hamming codes, syndrome decoding, convolutional codes are given in third chapter. Spread spectrum communication includes pseudo noise sequences, direct sequence and frequency hop spread spectrum. It is presented in fourth

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chapter. Multiple access techniques are reviewed in fifth chapter. Sixth chapter deals with satellite communications. Satellite orbits, satellite access, earth station, transponder, frequency reuse, link budget, VSAT and MSAT are presented. Fibre optic communication

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is introduced in seventh chapter. Light propagation in fiber, losses, modes, dispersion, light sources and detectors, fiber optic link are presented in this chapter.

Communication / Pulse Modulation
Block schematic of Communication

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System, Base Band Signals and their bandwidth requirements, RF Bands, Types and Communication Channels (Transmission Lines, Parallel Wires, Co-axial Cables, Waveguides and Optical Fiber). Necessity of Modulation, Types of Modulation : AM, FM, PM and Pulse Modulation. Block

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schematic of PAM, PWM, PPM.
Multiplexing : TDM, FDM. Amplitude
Modulation Mathematical treatment
and expression for AM, Frequency
Spectrum, Modulation Index, Power
Relation as applied to Sinusoidal
Signals, Representation of AM wave,
Mathematical treatment as applied to

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general signals in Communication,
Generation of AM using non-linear
property. Types of AM
Transmitters DSB-FC, DSB-SC, SSB,
ISB & VSB, their generation methods
and Comparison in terms of Bandwidth
and Transmission Power requirements
& Complexity (Block diagram

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treatment only)Angle

ModulationMathematical analysis of FM and PM using Sinusoidal Signals, Frequency spectrum, Mathematical treatment as applied to general non-sinusoidal Signals, Modulation index, Bandwidth requirements (all three relations). Narrowband and Wideband

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FM, Comparison of FM and PM, Direct and Indirect methods of FM generation, Need for Pre-emphasis, Comparison of AM and FM. AM & FM Receivers Block diagram of AM and FM receivers, Superheterodyne Receiver, Performance characteristics : Sensitivity, Selectivity, Fidelity, Image

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Frequency Rejection, IFRR, Tracking,
De-emphasis, Mixers.AM
DetectionEnvelope detection,
Synchronous detection, Practical
diode detection, AGC. SSB and DSB
detection methods.FM DetectionPhase
discriminatio and Ratio Detector,
Mathematical analysis of FM

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Detection.Noise Sources of Noise,
Types of Noise, White Noise, SNR,
Noise Figure, Noise Temperature, Friis
formula for Noise Figure, Noise
Bandwidth, Performance of AM (DSB,
SSB & VSB) and FM in presence of
Noise : Mathematical
treatmentRadiation and Propagation

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Concept of Radiation, Basic Antenna System (Dipole), Antenna parameters, Yagi Antenna. Mechanism of Propagation : Ground Wave, Sky Wave, Space Wave, Duct, Tropospheric Scatter and Extraterrestrial Propagation. Concept of Fading and diversity reception.

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This book gathers selected papers presented at the Inventive Communication and Computational Technologies conference (ICICCT 2019), held on 29-30 April 2019 at Gnanamani College of Technology, Tamil Nadu, India. The respective

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contributions highlight recent research efforts and advances in a new paradigm called ISMAC (IoT in Social, Mobile, Analytics and Cloud contexts). Topics covered include the Internet of Things, Social Networks, Mobile Communications, Big Data Analytics, Bio-inspired Computing and Cloud

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Computing. The book is chiefly intended for academics and practitioners working to resolve practical issues in this area.

Amplitude modulation and Angle modulation are discussed in first two chapters. AM, FM, analysis equations,

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modulators, detectors, transmission and reception are thoroughly presented. SSB, DSB, VSB, FDM are also discussed. Noise theory is given in third chapter. It includes random variables, probability, random processes and correlation functions. Noise factor, noise temperature and

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mathematical analysis of noise is presented. Performance of modulation systems in the presence of noise is explained in fourth chapter. Figure of merit, capture effect and threshold effect are also presented. Last chapter presents information theory. Entropy information rate, discrete memoryless

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source, source coding, Shannon's theorems are also given in detail. Mutual information and channel capacity are also presented.

There are eight chapters, useful appendix and solved question papers in the book. Basic digital

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communication, line codes and sampling methods are presented at the beginning. Digital pulse modulation techniques such as PCM, DPCM, DM, ADM are presented. Continuous wave digital modulation methods such as BPSK, DPSK, QPSK, QAM, BFSK and OOK are presented with mathematical

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analysis of modulators and receivers. Issues related to baseband transmission such as ISI, Nyquist pulse shaping criterion, optimum reception, matched filter and eye patterns are also discussed. Concepts of information theory such as discrete memoryless channels, mutual

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information, shannon's theorems on source coding are also presented. Coding using linear block codes, cyclic codes and convolutional coding is also discussed. Secured communication using spread spectrum modulation is also discussed in detail.

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Designed as a textbook for undergraduate students in Electrical Engineering, Electronics, Computer Science, and Information Technology, this up-to-date, well-organized study gives an exhaustive treatment of the

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basic principles of Digital Electronics and Logic Design. It aims at bridging the gap between these two subjects. The many years of teaching undergraduate and postgraduate students of engineering that Professor Somanathan Nair has done is reflected in the in-depth analysis and

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student-friendly approach of this book. Concepts are illustrated with the help of a large number of diagrams so that students can comprehend the subject with ease. Worked-out examples within the text illustrate the concepts discussed, and questions at the end of each chapter drill the students in self-

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Sections on important areas such as spread spectrum, cellular communications, and orthogonal frequency-division multiplexing are provided. * Computational examples are included, illustrating how to use

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the computer as a simulation tool, thereby allowing waveforms, spectra, and performance curves to be generated. * Overviews of the necessary background in signal, system, probability, and random process theory required for the analog and digital communications topics

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